ABSTRACT

A distributed network, spread-spectrum system comprising a plurality of remote stations and a plurality of nodes. One or more hub node(s) connect(s) to a central telephone office. A node's spread-spectrum transceiver communicates, using packets having spread-spectrum modulation, over radio waves, with the plurality of remote stations. Each packet has a source address and a destination address, and may have other information such as a header, start of message, end of message, flow-control information, forward error correction, and message data. A store-and-forward subsystem stores and forwards one or more packets to and from the remote station. The store-and-forward subsystem stores and forwards the one or more packets to and from another node in the plurality of nodes. A flow-control subsystem controls the store-and-forward subsystem, to store each packet arriving at the spread-spectrum transceiver. flow-control subsystem communicates traffic information between each of the nodes in the plurality of nodes. The flow-control subsystem routes the packet through appropriate nodes to the hub node from a remote station. Based on the traffic at each node, the flow-control subsystem transmits the packet from the hub node to an appropriate node, and routes the packet to a recipient remote station. The flow-control subsystem routes the plurality of packets through a path in the plurality of nodes to ensure that the plurality of packets arrive sequentially for voice or video packets.

LAW OFFICES

DAVID NEWMAN
CHARTERED
CENTENNIAL SQUARE
P.O. BOX 2728
LA PLATA, MD 20646
(301) 934-6100